

**Electronic Filing System (EFS) Data**  
**Electronic Patent Application Submission**  
**USPTO Use Only**

EFS ID: 18103  
Application ID: 10065144  
Title of Invention: A NOVEL FLUID SYSTEM HAVING  
CONTROLLABLE REVERSIBLE  
VISCOSITY  
First Named Inventor: FRANK CHANG  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2002-09-20   
Submission Type: Utility Patent Filing  
Filing Type: new-utility  
Confirmation Number: 0  
Attorney Docket Number: 56.0630  
Digital Certificate Holder: cn=Thomas O. Mitchell, ou=Registered Attorneys, ou=Patent and  
Trademark Office, ou=Department of Commerce, o=U.S.  
Government, c=US  
Certificate Message Digest: 9MvsL3YjT5dDRjn3iyOEJA==  
Total Fees Authorized: \$824.0  
  
Payment Category: DA – Deposit Account  
Deposit Account Number: 41579  
Deposit Account Name: THOMAS O MITCHELL

1C474 U.S. PTO  
10/065144  
09/20/02



# TRANSMITTAL FORM

Electronic Version 1.0.3

Stylesheet Version: 1.0

Attorney Docket Number: 56.0630

Submission Type: Utility Patent  
Filing

## A NOVEL FLUID SYSTEM HAVING CONTROLLABLE REVERSIBLE VISCOSITY

First Named Inventor: FRANK F CHANG

**SUBMITTED BY**

Name:	THOMAS O MITCHELL
Registration Number:	47,800
Electronic Signature Mark: /tm/	Date Signed: 20020920

*I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.*

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**Attached Files:**

declaration	Decla1.tif
declaration	Decla2.tif
fee-transmittal	submitfee.xml

specification  
bibd-transmittal

[lastres1.xml](#)  
[submitapds.xml](#)

**Attached Image File(s):**

Decla1.tif  
Decla2.tif

**Comments:**

Please type a plus sign (+) inside this box → 

PTO/SB/01 (10-00)

Approved for use through 10/31/2002, OMB 0651-003  
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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

Declaration Submitted with Initial Filing       Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	56.0630
First Named Inventor	Frank Chang
COMPLETE IF KNOWN	
Application Number	
Filing Date	
Group Art Unit	
Examiner Name	

As a below named Inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention(s) entitled:

**A Novel Fluid System Having Controllable Reversible Viscosity**

(Title of the Invention)

the specification of which

 is attached hereto

OR

 was filed on (MM/DD/YYYY) 

as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) 

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES <input type="checkbox"/> NO <input type="checkbox"/>
			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

 Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.
60/343,145	12/21/2002	<input type="checkbox"/>

[Page 1 of 2]

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**DECLARATION — Utility or Design Patent Application**

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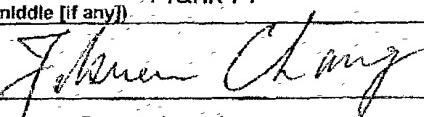
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**NAME OF SOLE OR FIRST INVENTOR :** A petition has been filed for this unsigned inventor.Given Name  
(first and middle [if any])

Frank F.

Family Name Chang  
or SurnameInventor's  
Signature

Date

Sep. 18, 2002

Residence: City

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State

TX

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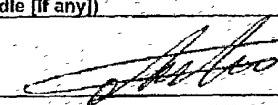
State TX

ZIP 77479

Country USA

**NAME OF SECOND INVENTOR:** A petition has been filed for this unsigned inventor.Given Name  
(first and middle [if any])

Diankui

Family Name Fu  
or SurnameInventor's  
Signature

Date

Residence: City

Missouri City

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Mailing Address

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City Missouri City

State TX

ZIP 77459

Country USA

 Additional inventors are being named on the \_\_\_\_\_ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

# FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Large Entity

**TOTAL FEES AUTHORIZED: \$ 824**

**The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:**

Deposit Account Number: 04-1579



Deposit Account Name: SCHLUMBERGER TECHNOLOGY CORPORATION

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

SUBMITTED BY

Authorized Name: THOMAS O MITCHELL

Electronic Signature Mark: Sitzmann1

Date Signed: 20020920

BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 740

Subtotal For Basic Filing Fee: \$ 740

EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 15	103	\$ 18	0	\$ 0
Independent Claims: 4	102	\$ 84	1	\$ 84

Subtotal For Extra Claims Fees: \$ 84